Constructing Worms

Using pattern blocks, construct the following worms shown below.

1) How many triangles will be needed to make the next worm?

2) Write a rule representing the relationship between the age of the worm, ***w***, and the number of triangles needed to make the worm, ***n***.

3) Create your own growing pattern using any pattern blocks of the same shape. Create the first three drawings below.

4) What is the rule for your growing pattern between the figure number and the number of pattern blocks needed to make each figure?

5) Create your own decreasing pattern using any pattern blocks of the same shape. Create the first three drawings below.

6) What is the rule for your decreasing pattern between the figure number and the number of pattern blocks needed to make each figure?